



**MARK THOMAS & COMPANY, INC.**  
Providing Engineering, Surveying and Planning Services

ATTACHMENT 11

Page 1 of 2 90 Archer Street  
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January 12, 2005

Mr. Ken Bahl  
Sierra Proto Express  
1108 West Evelyn Avenue  
Sunnyvale CA 94086

***Re: Sierra Proto Express Building, 1108 West Evelyn Avenue, Sunnyvale, CA 94086***

Dear Mr. Bahl,

In response to your request, Mark Thomas & Company, Inc. (MTCO) has evaluated the possibility of adding a partial second story over the existing referenced building to house new equipment. Yesterday, MTCO performed a brief review of remodeling plans made available by your staff, and cursory walkthrough of your facility. We also assessed the requirements for the proposed second floor space, which included the additional loading to be taken by the structure.

It is our opinion that the existing foundations and the structural framing will not be able to support any additional loads from the second story addition, even for ordinary office use. It is our understanding that your manufacturing and testing facility uses relatively heavy and highly sensitive equipment with no or small tolerances for deflection or vibration. To install heavy sensitive equipment on the second floor would require that the new second floor structure and its foundations be massive in order to minimize the deflections and vibrations.

It is our opinion that adding a second floor over the existing structure to house the new proposed equipment would be structurally impractical and would be very expensive because of the sensitivity and the massive weight of the equipment.

We would also like to bring to your notice that adding a partial second floor over the existing building, if at all considered, would require the manufacturing operations to be shut down during construction. We suggest, in order to minimize the construction costs and to eliminate the shutting down of your existing operations, it would be practical to install the proposed new equipment at grade in a new space adjacent to the existing building.

This evaluation is based on our limited field observations of the existing building and a review of the remodeling drawings. Our opinions are based on engineering judgment and our experience with the remodeling of similar industrial and manufacturing buildings. Care has been taken in providing the professional opinions in this evaluation; however

If you have any questions or require additional information, please give us a call.

Sincerely,

**MARK THOMAS & COMPANY, INC.**

Po Chen S.E.  
Department Manager  
Structure

